CLAIMS

What is claimed is:

- 1-10. (Canceled)
- 11. An interchange urban road system comprising:
 - a road for motor vehicles; and,
- a traffic lane for non-motor vehicles arranged in essentially a grid-pattern road network with a double-layer road structure, in which one layer is a motor way on the ground and another layer is a footway at a suitable elevation above said motor way, wherein said footway is located, at least one of, over the motor way with the footway having a width substantially corresponding to the motorway, and/or above each side of said motor way wherein each of the sides of the footway are connected with a passageway.
- 12. An interchange urban road system of claim 11, wherein said motor way comprises an expressway and a minor arterial, wherein an over bridge is positioned at an expressway intersection, wherein said minor arterial is a ramp.
- 13. An interchange urban road system of claim 11, wherein at least a part of said footway layer proximate an intersection of a collector street is constructed as ring pathway or aerial square.
- 14. An interchange urban road system of claim 11, wherein said footways comprises a sidewalk and a traffic lane for non-motor vehicles provided at the same level.
- 15. An interchange urban road system of claim 11, wherein a turnaround passageway is positioned at least one or more of the following locations: an expressway intersections and/or under an over bridge of said expressways.
- 16. An interchange urban road system of claim 12, wherein a minor arterial is provided between two parallel expressways as a ramp for said parallel expressways and as a passageway to a subzone way.
- 17. An interchange urban road system of claim 11, 12, 13, 14, 15, or 16, wherein a plurality of buildings positioned on the ground and beside said sides of said road, each comprise a first floor layer at an aerial layer, wherein said first floor layer is provided for at least one of parking, urban forestation, transportation construction, and/or circumnavigating of said vehicles under emergency conditions; wherein said footways are connected with a roof of said first floor layer of said buildings, and wherein said aerial layer is provided for parking.

- 18. An interchange urban road system of claim 11, 12, 13, 14, 15, or 16, wherein at least one of a U-turn road and/or a special ramp within a city boundary, and/or an over bridge for a left turn, is provided proximate a branch road of said expressway, wherein said branch road is provided on the minor arterial.
- 19. An interchange urban road system of claim 11, wherein latticework of said essentially grid pattern road network is changeable in form, and wherein said road is at least one of a linear road and/or a curved road.
- 20. A traffic method of using the interchange urban road system of claim 11, 12, 13, 14, 15, 16, or 19, comprising an expressway and a minor arterial for constituting a motor way, an over bridge positioned at a location of an expressway intersection, wherein vehicles at least one of travel straight ahead and/or turn to a travel side, along a travel direction on the expressway, wherein vehicles can only turn left on the expressway in a region where traffic keeps to the left, wherein vehicles can only turn to the right along the travel direction on the expressway at a region where the traffic keeps to the right, and wherein said minor arterial is a ramp.